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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,118	10/31/2003	Masayoshi Matsumoto	244780US0	8429
22850	7590 12/15/2004		EXAMINER	
OBLON, SI 1940 DUKE	PIVAK, MCCLELLAN Street	ZALUKAEVA, TATYANA		
	ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			1713	
			DATE MAILED: 12/15/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		10/697,118	MATSUMOTO, MASAYOSHI
		Examiner	Art Unit
		Tatyana Zalukaeva	1713
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover shee	t with the correspondence address
- Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION insions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature to reply received by the Office later than three months after the mail ed patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, ma pply within the statutory minimum of d will apply and will expire SIX (6) No the cause the application to be a	thirty (30) days will be considered timely. ADANIES from the mailing date of this communication.
Status	,,		
2a) <u></u>	Responsive to communication(s) filed on 31 This action is FINAL . 2b) The Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal m	atters, prosecution as to the merits is
Dispositi	on of Claims		,
5)□ 6)⊠ 7)□	Claim(s) <u>1-8</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>1-8</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/a	awn from consideration.	· *
Application	on Papers		
ר □(10 ד □(11	The specification is objected to by the Examinative drawing(s) filed on is/are: a) accomposed and all are all accomposed and are all are	cepted or b) objected to drawing(s) be held in abey cation is required if the drawir	ance. See 37 CFR 1.85(a).
a) ≥ 	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document Copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority application from the International Bureate the attached detailed Office action for a list	ts have been received. ts have been received in rity documents have bee u (PCT Rule 17.2(a)).	Application No n received in this National Stage
2) Notice 3) Information Paper I	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 10/03.	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)
S. Patent and Trad TOL-326 (Rev	. 4.04	etion Summary	Part of Paper No./Mail Date 20041210

Art Unit: 1713

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 1-3, 5-8 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over U.S. 3,284,423 to Knapp.

Art Unit: 1713

Claims 1-3, 5, 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Knapp discloses a pressure sensitive adhesive composition (title) comprising an acrylic copolymer desribed by the preferred embodiments, such as Examples1 in col.2 and 2 in coil.2, 3 and Example 3 in col. 3:

EXAMPLE 1 A solution of 2-ethylhexyl arcylate (60 parts), methyl arcylate (34 parts), acrylic acid (5 parts) and glycidyl methacrylate (1 part) was formed in a 4: 1 ethyl acetatehexane solvent mixture and polymerized at reflux temperature for 5 hours in the presence of 0.15 part of a,a'-azodiisobutyronitrile. The resulting polymer solution had a :solids content of 45% by weight and a Brookfield viscosity of 15,000 centiposes at 25 o C. This particular pressure-sensitive resin when coated, and dried could bond "Mylar" polyethylene terephthalate to steel under a constant shear load of I lb./square inch at 60' C. Resin exhibited aggressive dry tack which was not noticeably diminished after two weeks under the above test conditions.

EXAMPLE 2 Another polymerization was carried out with the following monomer charge: 65 parts lauryl acrylate, 29 parts ethyl acrylate, 5 parts acrylic acid and I part glycidyl methaerylate. The process used was that of Example 1. There was thus obtained a resin solution having a solids content of 55% by weight and a Brookfield viscosity of 10,000 centipoises at 25' C.

EXAMPLE 3 Another resin was made according to the process of Example I from a monomer composition consisting of 10 64 parts 2-ethylhexyl acrylate, 30 parts ethyl acrylate, 5 parts acrylic acid and I part glycidyl methacrylate.

Art Unit: 1713

These compositions are absolutely identical to those recited in the instant claims 1-3, 6 and 8. The limitations of claim 5 is met by the examples above and by description in col.3, lines 60-75. For claim 6, see also col.4, lines 32-45.

With regard to the limitation of molecular weight the rejection is made in the sense of The above rejections were made in the sense of *Fitzgerald* (205 USPQ 594). (CAFC) based on presumption that the properties governing the claimed compositions, if not taught, may be very well met by the compositions of Knapp, since the compositions of Knapp are identical and made in essentially the same manner as applicants' compositions, wherein the burden to show that it is not the case by presenting a factual evidence is shifted to applicants; or in the sense of *In re Spada*, 911 F 2d 705, 709 15 USPQ 1655, 1658 (Fed. Cir. 1990), which settles that when the claimed compositions are not novel, they are not rendered patentable by recitation of properties, whether or not these properties are shown or suggested in prior art.

5. Claims 1-3, 5-8 are rejected under 35 U.S.C. 102(b) as anticipated by Mallya et al (U.S. 4,812,541). See Control Examples 5-8 in col. 6, lines 30-40. Ther ratio of monomers for all embodiments of Malya is selected to produce polymers with weight average molecular weights of 200,000-500,000 (col.2, lines 49-55). With regard to claim 7 it is taught by Mallya that the compositions of the invention, including controls were allowed to dwell for 30 minutes at 120°C (see col.3, lines 1-10). This reads on the drying at a temperature between 100-150°C, as per instant claim 7

Art Unit: 1713

6. Claim 8 IS rejected under 35 U.S.C. 102(b) as being anticipated by or in the alternative as obvious over Kordzinski et al (U.S. 3,579,490). See example 2 in col.4, for molecular weight limitation, please refer to the rationale applied for rejection over Knapp.

Page 5

Claim Rejections - 35 USC § 103

7. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Knapp in view of Bauduin et al (U.S. 6,297,309)

There is no disclosure in Knapp of the stabilizers added to the pressure sensitive adhesive composition. The addition of different stabilizers to pressure sensitive adhesive compositions is notoriously used in the art as clearly stated by Bauduin: *Common* pressure-sensitive adhesives heretofore known include those comprising a rubber-type high-molecular-weight substance as a base polymer, tackifying resin, plasticizer and when required, *stabilizer*, antioxidant, filler, coloring agent and the like (see background in col.1, line 36). In Example 1 or table 2, wherein the pressure sensitive adhesive is an ethylene/acrylate polymer the use of stabilizer IRGANOX-1010, which is an alkyl phenol stabilizer is described. Therefore, based on the general and routine use of different stabilizers in pressure sensitive adhesives, as taught by Bauduin, it would have been obvious to those skilled in the art to employ such in the composition of Knapp in order to improve stability of Knapp's adhesive to oxidation, and thus to arrive at the instant claim 4.

Art Unit: 1713

8. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Knapp. Knapp does not provide the temperature of drying the sheet with pressure sensitive adhesive on it. Knapp suggests that sheets of different materials could be coated wit the inventive pressure sensitive adhesives, and suggests that the drying process takes place (see, for example lines 55, 56 of col.2). Thus it would have been obvious to those skilled in te art to find the optimum drying temperature via routine experimentation, taking into account that such temperature is a result effective variable in terms of gelling of the adhesive or formation of "fish eyes" while coating. This rejection is made in the sense of In re Boesch and Slaney 205 USPQ 215 (CCPA 1980):

Discovery of optimum value of result effective variable in known process is ordinarily within the skill in the art and would have been obvious.

Page 6

9. Other prior art references cited in PTOL-892 show the state of the art in acrylic pressure sensitive adhesives.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tatyana Zalukaeva whose telephone number is (571) 272-1115. The examiner can normally be reached on 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1713

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tatyana Zalukaeva

Page 7

December 10, 2004

Primary Examiner Art Unit 1713

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